

## METHOD AND APPARATUS FOR CREATING A RADIO FREQUENCY FILTER

### ABSTRACT

5           A transmission line (218) is formed to have a characteristic impedance which increases at a first substantially exponential rate with respect to a distance from the input (202). A plurality of resonators (206-214) are coupled to the transmission line and positioned at a plurality of locations along the transmission line. The plurality of resonators has  
10 resonant frequencies that decrease at a second substantially exponential rate with respect to the distance from the input. An output signal (810, 812) is obtained at a point in the filter that produces a filter response having a corner frequency.